EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1373	715/500.ccls.	US-PGPUB; USPAT	OR	OFF	2007/05/10 08:43
L2	0	707/515.ccls.	US-PGPUB; USPAT	OR	OFF	2007/05/10 08:43
L3	0	707/530.ccls.	US-PGPUB; USPAT	OR	OFF	2007/05/10 08:44
L4	1375	715/530.ccls.	US-PGPUB; USPAT	OR	OFF	2007/05/10 08:44
L5	330	715/515.ccls.	US-PGPUB; USPAT	OR	OFF	2007/05/10 08:44
L6	100	382/256.ccls.	USPAT	OR	OFF	2007/05/10 08:46
L7	394	382/282.ccls.	USPAT	OR	OFF	2007/05/10 09:20
L8	706	382/312-313.ccls.	USPAT	OR	OFF	2007/05/10 09:22
L9	1	twain special api	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2007/05/10 09:06
L10	0	((DISPLAY$3 SAME IMAGE SAME SCAN$4) SAME DETECT$3 SAME EDGE) SAME COLOR same api	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/10 09:07
L11	0	(special (api or dll)twain interfac$3).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2007/05/10 09:10
L12	0	(special (api or dll)twain).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2007/05/10 09:08
L13	1	((api or dll)twain).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2007/05/10 09:10
L14	1	((api or dll)twain).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/05/10 09:10

EAST Search History

L15	0	(special (api or dll)twain interfac$3).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/05/10 09:11
L16	0	(image (api or dll)twain interfac$3).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/05/10 09:11
L17	899	358/1.1.ccls.	USPAT	OR	OFF	2007/05/10 09:20
L18	590	358/1.2.ccls.	USPAT	OR	OFF	2007/05/10 09:20
L19	471	358/407-408.ccls.	USPAT	OR	OFF	2007/05/10 09:20
L20	324	358/505.ccls.	USPAT	OR	OFF	2007/05/10 09:20
L21	204	382/318.ccls.	USPAT	OR	OFF	2007/05/10 09:23
L22	331	382/321.ccls.	USPAT	OR	OFF	2007/05/10 09:23
S160	27	scan$4 same twain same api	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/09 10:16
S161	2	LEVINE.IN. AND TWAIN	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/09 10:51
S162	1	("6003093").PN.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/05/09 11:21
S163	3	(("6,587,129") or ("7,039,876") or ("5,911,044")).PN.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/05/09 11:22
S164	20	("5265252" \| "5319751" \| "5404494" \| "5613123" \| "5630101" \| "5706457" \| "5745762" \| "5752032" \| "5764866" \| "5911044").PN. OR ("6003093").URPN.	US-PGPUB; USPAT; USOCR	SAME	ON	2007/05/09 11:22

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L23	1710	358/474.ccls.	USPAT	OR	OFF	2007/05/10 09:31
L24	509	358/401.ccls.	USPAT	OR	OFF	2007/05/10 09:30

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1 **Jargons for domain engineering**
Lloyd H. Nakatani, Mark A. Ardis, Robert G. Olsen, Paul M. Pontrelli
December 1999 **ACM SIGPLAN Notices , Proceedings of the 2nd conference on Domain-specific languages PLAN '99**, Volume 35 Issue 1
Publisher: ACM Press
Full text available: pdf(886.76 KB) Additional Information: full citation, abstract, references, citings, index terms

In the Family-oriented Abstraction, Specification and Translation (FAST) domain engineering process for software production, a member of a software product family is automatically generated from a model expressed in a DSL. In practice, the time and skill needed to make the DSLs proved to be bottlenecks. FAST now relies on jargons, a kind of easy-to-make DSL that domain engineers who are not language experts can quickly make themselves. We report our experiences with jargons in the FAST proc ...

2 **Macintosh human interface guidelines**
Apple Computer, Inc.
January 1992 Book
Publisher: Addison-Wesley Publishing Company
Full text available: pdf(37.61 MB) Additional Information: full citation, abstract, references, cited by, index terms

Macintosh Human Interface Guidelines describes the way to create products that optimize the interaction between people and Macintosh computers. It explains the whys and hows of the Macintosh interface in general terms and specific details.

Macintosh Human Interface Guidelines helps you link the philosophy behind the Macintosh interface to the actual implementation of interface elements. Examples from a wide range of Macintosh products show good human interface design, including individ ...

3 **Formal specification as a design tool**
John Guttag, J. J. Horning
January 1980 **Proceedings of the 7th ACM SIGPLAN-SIGACT symposium on Principles of programming languages POPL '80**
Publisher: ACM Press
Full text available: pdf(1.05 MB) Additional Information: full citation, abstract, references, citings

The formulation and analysis of a design specification is almost always of more utility than the verification of the consistency of a program with its specification. Good specification tools can assist in this process, but have generally not been proposed and evaluated in this light. In this paper we outline a specification language combining algebraic axioms and predicate transformers, present part of a non-trivial example (the specification of a high-

level interface to a display), and finally ...

4 Structural computing: Unifying structure, behavior, and data with themis types and templates

William Van Lepthien, Kenneth M. Anderson

August 2004 **Proceedings of the fifteenth ACM conference on Hypertext and hypermedia HYPERTEXT '04**

Publisher: ACM Press

Full text available: pdf(332.32 KB) Additional Information: full citation, abstract, references, citings, index terms

Structural computing evolved from work on open hypermedia to aid in the creation of software infrastructure. Open hypermedia had produced software that provided applications with access to hypermedia structures and services. The question was asked if these results could be generalized to create similar tools for other domains. Initial work focused on the development of structure servers that can create and manipulate domain-specific structures, but little work focused on allowing those structure ...

Keywords: Chimera, Themis, structural computing, templates, types

5 UI and Applications: A graphical user interface toolkit approach to thin-client computing

Simon Lok, Steven K. Feiner, William M. Chiong, Yoav J. Hirsch

May 2002 **Proceedings of the 11th international conference on World Wide Web WWW '02**

Publisher: ACM Press

Full text available: pdf(1.56 MB) Additional Information: full citation, abstract, references, citings, index terms

Network and server-centric computing paradigms are quickly returning to being the dominant methods by which we use computers. Web applications are so prevalent that the role of a PC today has been largely reduced to a terminal for running a client or viewer such as a Web browser. Implementers of network-centric applications typically rely on the limited capabilities of HTML, employing proprietary "plug ins" or transmitting the binary image of an entire application that will be executed on the cl ...

Keywords: client-server systems, network computing, remote method invocation, user interface toolkit

6 Session I: Design patterns as higher-order datatype-generic programs

Jeremy Gibbons

September 2006 **Proceedings of the 2006 ACM SIGPLAN workshop on Generic programming WGP '06**

Publisher: ACM Press

Full text available: pdf(214.16 KB) Additional Information: full citation, abstract, references, index terms

Design patterns are reusable abstractions in object-oriented software. However, using current mainstream programming languages, these elements can only be expressed extra-linguistically: as prose, pictures, and prototypes. We believe that this is not inherent in the patterns themselves, but evidence of a lack of expressivity in the languages of today. We expect that, in the languages of the future, the code parts of design patterns will be expressible as reusable library components. Indeed, we c ...

Keywords: design patterns, folds, functional programming, generic programming, higher-order functions, unfolds

7 Engineering design: Platform-independent accessibility API: accessible document

object model
Andres Gonzalez, Loretta Guarino Reid
May 2005 **Proceedings of the 2005 International Cross-Disciplinary Workshop on Web Accessibility (W4A) W4A '05**
Publisher: ACM Press
Full text available: pdf(167.73 KB) Additional Information: full citation, abstract, references, index terms

This paper addresses the problem of supporting accessibility in applications that run in multiple operating environments. It analyzes the commonalities of existing platform-specific Accessibility APIs, and defines a platform-independent accessibility API, the Accessible DOM.The Accessible DOM encompasses the features of existing APIs and overcomes the limitations of existing APIs to express dynamic, complex document contents.The Accessible DOM can be used to support existing and future platform- ...

Keywords: W3C DOM, accessibility API

8 Haddock, a Haskell documentation tool
Simon Marlow
October 2002 **Proceedings of the 2002 ACM SIGPLAN workshop on Haskell Haskell '02**
Publisher: ACM Press
Full text available: pdf(94.53 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper describes Haddock, a tool for automatically generating documentation from Haskell source code. Haddock's unique approach to source code annotations provides a useful separation between the implementation of a library and the interface (and hence also the documentation) of that library, so that as far as possible the documentation annotations in the source code do not affect the programmer's freedom over the structure of the implementation. The internal structure and implementation of ...

Keywords: API documentation, Haskell, documentation generation, documentation tool, module system, source-code documentation

9 Tools: Role-based control of shared application views
Lior Berry, Lyn Bartram, Kellogg S. Booth
October 2005 **Proceedings of the 18th annual ACM symposium on User interface software and technology UIST '05**
Publisher: ACM Press
Full text available: pdf(745.66 KB) Additional Information: full citation, abstract, references, index terms

Collaboration often relies on all group members having a shared view of a single-user application. A common situation is a single active presenter sharing a live view of her workstation screen with a passive audience, using simple hardware-based video signal projection onto a large screen or simple bitmap-based sharing protocols. This offers simplicity and some advantages over more sophisticated software-based replication solutions, but everyone has the exact same view of the application. This c ...

Keywords: CSCW, application, bitmap, policy, privacy, role, sharing, verbosity, view

10 On-chip communication and interface design: Retargetable generation of TLM bus interfaces for MP-SoC platforms
Andreas Wieferink, Rainer Leupers, Gerd Ascheid, Heinrich Meyr, Tom Michiels, Achim Nohl, Tim Kogel
September 2005 **Proceedings of the 3rd IEEE/ACM/IFIP international conference on Hardware/software codesign and system synthesis CODES+ISSS '05 , Proceedings of the 3rd IEEE/ACM/IFIP international conference on Hardware/software codesign and system synthesis CODES+ISSS '05**

Publisher: ACM Press, IEEE Computer Society

Full text available: pdf(149.00 KB) Publisher Site

Additional Information: full citation, abstract, references, index terms

In order to meet flexibility, performance and energy efficiency constraints, future SoC (System-on-Chip) designs will contain an increasing number of heterogeneous processor cores combined with a complex communication architecture. Optimal platforms are obtained by customizing both computation and communication modules to the application's needs. In our design flow both kinds of SoC modules are automatically derived from abstract specifications. This work focuses on generating the communication ...

Keywords: MP-SoC, SystemC, TLM, architecture exploration, retargetability, simulation

11 Hypermedia systems: Structure and behavior awareness in themis

Kenneth M. Anderson, Susanne A. Sherba, William V. Lepthien

August 2003 **Proceedings of the fourteenth ACM conference on Hypertext and hypermedia HYPERTEXT '03**

Publisher: ACM Press

Full text available: pdf(291.23 KB)

Additional Information: full citation, abstract, references, citings, index terms

Structural computing provides techniques and tools to ease the task of developing application infrastructure; infrastructure that provides common services such as persistence, naming, distribution, navigational hypermedia, etc., over a set of application-specific or domain-specific *structures*. Within structural computing, "structure" refers to a combination of data together with relationships pertaining to that data. Structure servers support the specification and manipulation of structur ...

Keywords: awareness, behavior, structural computing, structure, themis

12 A loosely-coupled integration of a text retrieval system and an object-oriented database system

W. Bruce Croft, Lisa A. Smith, Howard R. Turtle

June 1992 **Proceedings of the 15th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '92**

Publisher: ACM Press

Full text available: pdf(854.18 KB)

Additional Information: full citation, abstract, references, citings, index terms

Document management systems are needed for many business applications. This type of system would combine the functionality of a database system, (for describing, storing and maintaining documents with complex structure and relationships) with a text retrieval system (for effective retrieval based on full text). The retrieval model for a document management system is complicated by the variety and complexity of the objects that are represented. In this paper, we describe an approach to compl ...

13 Chiron-1: a software architecture for user interface development, maintenance, and run-time support

Richard N. Taylor, Kari A. Nies, Gregory Alan Bolcer, Craig A. MacFarlane, Kenneth M. Anderson, Gregory F. Johnson

June 1995 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 2 Issue 2

Publisher: ACM Press

Full text available: pdf(2.65 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

The Chiron-1 user interface system demonstrates key techniques that enable a strict separation of an application from its user interface. These techniques include separating the control-flow aspects of the application and user interface: they are concurrent and

may contain many threads. Chiron also separates windowing and look-and-feel issues from dialogue and abstract presentation decisions via mechanisms employing a client-server architecture. To separate application code from user interf ...

Keywords: artists, client-server, concurrency, event-based integration, user interface architectures

14 Spoken dialogue technology: enabling the conversational user interface

Michael F. McTear
March 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 1
Publisher: ACM Press

Full text available: pdf(987.69 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Spoken dialogue systems allow users to interact with computer-based applications such as databases and expert systems by using natural spoken language. The origins of spoken dialogue systems can be traced back to Artificial Intelligence research in the 1950s concerned with developing conversational interfaces. However, it is only within the last decade or so, with major advances in speech technology, that large-scale working systems have been developed and, in some cases, introduced into commerc ...

Keywords: Dialogue management, human computer interaction, language generation, language understanding, speech recognition, speech synthesis

15 Pen computing: a technology overview and a vision

André Meyer
July 1995 **ACM SIGCHI Bulletin**, Volume 27 Issue 3
Publisher: ACM Press
Full text available: pdf(5.14 MB) Additional Information: full citation, abstract, citings, index terms

This work gives an overview of a new technology that is attracting growing interest in public as well as in the computer industry itself. The visible difference from other technologies is in the use of a pen or pencil as the primary means of interaction between a user and a machine, picking up the familiar pen and paper interface metaphor. From this follows a set of consequences that will be analyzed and put into context with other emerging technologies and visions.Starting with a short historic ...

16 Text-editing and photocomposing APL publications

Arlene E. Azzarello
September 1981 **ACM SIGAPL APL Quote Quad , Proceedings of the international conference on APL APL '81**, Volume 12 Issue 1
Publisher: ACM Press
Full text available: pdf(756.42 KB) Additional Information: full citation, abstract, references, index terms

Producing APL publications in a readable, pleasing, printed format is a challenging and time-consuming task. In an effort to get away from publishing APL documentation reproduced from typewriter terminal or line-printed output, I. P. Sharp Associates experimented with an interface between an APL text editor and a commercial photocomposing typesetter. Producing the Sharp APL Reference Manual [1] revealed some fundamental design issues which must be considered when constructi ...

17 Using metalevel techniques in a flexible toolkit for CSCW applications

Paul Dourish
June 1998 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 5 Issue 2
Publisher: ACM Press

Full text available: pdf(292.97 KB) Additional Information: full citation, abstract, references, citings, index terms

Ideally, software toolkits for collaborative applications should provide generic, reusable

components, applicable in a wide range of circumstances, which software developers can assemble to produce new applications. However, the nature of CSCW applications and the mechanics of group interaction present a problem. Group interactions are significantly constrained by the structure of the underlying infrastructure, below the level at which toolkits typically offer control. This article describe ...

Keywords: consistency control, consistency guarantees, data distribution, divergency, metalevel programming, open implementation, software architecture

18 Proximal nodes: a model to query document databases by content and structure

Gonzalo Navarro, Ricardo Baeza-Yates

October 1997 **ACM Transactions on Information Systems (TOIS)**, Volume 15 Issue 4

Publisher: ACM Press

Full text available: pdf(550.43 KB) Additional Information: full citation, abstract, references, citings, index terms, review

A model to query document databases by both their content and structure is presented. The goal is to obtain a query language that is expressive in practice while being efficiently implementable, features not present at the same time in previous work. The key ideas of the model are a set-oriented query language based on operations on nearby structure elements of one or more hierarchies, together with content and structural indexing and bottom-up evaluation. The model is evaluated in regard t ...

Keywords: expressivity and efficiency of query languages, hierarchical documents, structured text, text algebras

19 Document detection: Inquery system overview

John Broglio, James P. Callan, W. Bruce Croft

September 1993 **Proceedings of a workshop on held at Fredericksburg, Virginia: September 19-23, 1993**

Publisher: Association for Computational Linguistics

Full text available: pdf(1.57 MB) Additional Information: full citation, abstract, references

The TIPSTER project in the Information Retrieval Laboratory of the Computer Science Department, University of Massachusetts, Amherst (which includes MCC as a subcontractor), has focused on the following goals:• Improving the effectiveness of information retrieval techniques for large, full-text databases,• Improving the effectiveness of routing techniques appropriate for long-term information needs, and• Demonstrating the effectiveness of these retrieval and routing techniques for ...

20 Software evolution: CatchUp!: capturing and replaying refactorings to support API evolution

Johannes Henkel, Amer Diwan

May 2005 **Proceedings of the 27th international conference on Software engineering ICSE '05 , Proceedings of the 27th international conference on Software engineering ICSE '05**

Publisher: ACM Press, IEEE Computer Society

Full text available: pdf(298.59 KB) Publisher Site Additional Information: full citation, abstract, references, citings, index terms

Library developers who have to evolve a library to accommodate changing requirements often face a dilemma: Either they implement a clean, efficient solution but risk breaking client code, or they maintain compatibility with client code, but pay with increased design complexity and thus higher maintenance costs over time.We address this dilemma by presenting a lightweight approach for evolving application programming interfaces (APIs), which does not depend on version control or configuration man ...

Keywords: application programming interfaces, refactoring, software evolution

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1 Macintosh human interface guidelines
Apple Computer, Inc.
January 1992 Book
Publisher: Addison-Wesley Publishing Company
Full text available: pdf(37.61 MB) Additional Information: full citation, abstract, references, cited by, index terms

Macintosh Human Interface Guidelines describes the way to create products that optimize the interaction between people and Macintosh computers. It explains the whys and hows of the Macintosh interface in general terms and specific details.

Macintosh Human Interface Guidelines helps you link the philosophy behind the Macintosh interface to the actual implementation of interface elements. Examples from a wide range of Macintosh products show good human interface design, including individ ...

2 Fast detection of communication patterns in distributed executions
Thomas Kunz, Michiel F. H. Seuren
November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research CASCON '97**
Publisher: IBM Press
Full text available: pdf(4.21 MB) Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

3 TextTiling: segmenting text into multi-paragraph subtopic passages
Marti A. Hearst
March 1997 **Computational Linguistics**, Volume 23 Issue 1
Publisher: MIT Press
Full text available: pdf(2.46 MB) Additional Information: full citation, abstract, references, citings
Publisher Site

TextTiling is a technique for subdividing texts into multi-paragraph units that represent passages, or subtopics. The discourse cues for identifying major subtopic shifts are patterns of lexical co-occurrence and distribution. The algorithm is fully implemented and is shown to produce segmentation that corresponds well to human judgments of the subtopic boundaries of 12 texts. Multi-paragraph subtopic segmentation should be useful

for many text analysis tasks, including information retrieval and ...

4 Compiler construction: an advanced course

F. L. Bauer, F. L. De Remer, M. Griffiths, U. Hill, J. J. Horning, C. H. A. Koster, W. M. McKeeman, P. C. Poole, W. M. Waite, G. Goos, J. Hartmanis
January 1974 Book

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(65.62 MB) Additional Information: full citation, abstract, references, cited by

The Advanced Course took place from March 4 to 15, 1974 and was organized by the Mathematical Institute of the Technical University of Munich and the Leibniz Computing Center of the Bavarian Academy of Sciences, in co-operation with the European Communities, sponsored by the Ministry for Research and Technology of the Federal Republic of Germany and by the European Research Office, London.

5 Flexible collaboration transparency: supporting worker independence in replicated application-sharing systems

James Begole, Mary Beth Rosson, Clifford A. Shaffer
June 1999 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 6 Issue 2

Publisher: ACM Press

Full text available: pdf(312.22 KB) Additional Information: full citation, abstract, references, citings, index terms, review

This article presents a critique of conventional collaboration transparency systems, also called "application-sharing" systems, which provide the real-time shared use of legacy single-user applications. We find that conventional collaboration transparency systems are inefficient in their use of network resources and lack support for key groupware principles: concurrent work, relaxed WYSIWIS, and group awareness. Next, we present an alternative approach to implementing collaborat ...

Keywords: Flexible JAMM, Java, application sharing, collaboration transparency, computer-supported cooperative work, groupware, usability

6 The multics system: an examination of its structure

Elliott I. Organick
January 1972 Book

Publisher: MIT Press

Full text available: pdf(23.94 MB) Additional Information: full citation, abstract, references, cited by, index terms

This volume provides an overview of the Multics system developed at M.I.T.--a time-shared, general purpose utility like system with third-generation software. The advantage that this new system has over its predecessors lies in its expanded capacity to manipulate and file information on several levels and to police and control access to data in its various files. On the invitation of M.I.T.'s Project MAC, Elliott Organick developed over a period of years an explanation of the workings, concep ...

7 The Desert environment

Steven P. Reiss
October 1999 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 8 Issue 4

Publisher: ACM Press

Full text available: pdf(868.64 KB) Additional Information: full citation, abstract, references, citings, index terms, review

The Desert software engineering environment is a suite of tools developed to enhance programmer productivity through increased tool integration. It introduces an inexpensive form of data integration to provide additional tool capabilities and information sharing

among tools, uses a common editor to give high-quality semantic feedback and to integrate different types of software artifacts, and builds virtual files on demand to address specific tasks. All this is done in an open and extensibl ...

Keywords: integrated programming environments, program editors

8 Integrating document and data retrieval based on XML

Jan-Marco Bremer, Michael Gertz

January 2006 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 15 Issue 1

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(841.10 KB) Additional Information: full citation, abstract

For querying structured and semistructured data, data retrieval and document retrieval are two valuable and complementary techniques that have not yet been fully integrated. In this paper, we introduce integrated information retrieval (IIR), an XML-based retrieval approach that closes this gap. We introduce the syntax and semantics of an extension of the XQuery language called XQuery/IR. The extended language realizes IIR and thereby allows users to formulate new kinds of queries by nesting rank ...

Keywords: Data retrieval, Document retrieval, Index structures, Integrated information retrievals, Structural join, XML

9 PicturePiper: using a re-configurable pipeline to find images on the Web

Adam M. Fass, Eric A. Bier, Eyton Adar

November 2000 **Proceedings of the 13th annual ACM symposium on User interface software and technology UIST '00**

Publisher: ACM Press

Full text available: pdf(364.31 KB) Additional Information: full citation, references, index terms

Keywords: WWW searching, dataflow, image retrieval, pipeline

10 Understanding accessibility: A Semantic-web based framework for developing applications to improve accessibility in the WWW

Christos Kouroupetroglou, Michail Salampasis, Athanasios Manitsaris

May 2006 **Proceedings of the 2006 international cross-disciplinary workshop on Web accessibility (W4A): Building the mobile web: rediscovering accessibility? W4A**

Publisher: ACM Press

Full text available: pdf(665.97 KB) Additional Information: full citation, abstract, references, index terms

One of the biggest issues the World Wide Web (WWW) community has to overcome is accessibility for all. The rapid expansion of the WWW using problematic web authoring practices, together with the dominance of the desktop metaphor in web page design has raised many WWW accessibility problems for people with disabilities. In this paper we present a what may be termed as a "Semantic Web application framework" which allows different applications to be designed and developed for improving accessibilit ...

Keywords: RDF, accessibility, information seeking, metadata, semantic web, voice browser

11 Structural computing: Unifying structure, behavior, and data with themis types and templates

William Van Lepthien, Kenneth M. Anderson

August 2004 **Proceedings of the fifteenth ACM conference on Hypertext and hypermedia HYPERTEXT '04**
Publisher: ACM Press

Full text available: pdf(332.32 KB) Additional Information: full citation, abstract, references, citings, index terms

Structural computing evolved from work on open hypermedia to aid in the creation of software infrastructure. Open hypermedia had produced software that provided applications with access to hypermedia structures and services. The question was asked if these results could be generalized to create similar tools for other domains. Initial work focused on the development of structure servers that can create and manipulate domain-specific structures, but little work focused on allowing those structure ...

Keywords: Chimera, Themis, structural computing, templates, types

12 Anatomy of a native XML base management system
T. Fiebig, S. Helmer, C.-C. Kanne, G. Moerkotte, J. Neumann, R. Schiele, T. Westmann
December 2002 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 11 Issue 4
Publisher: Springer-Verlag New York, Inc.
Full text available: pdf(300.97 KB) Additional Information: full citation, abstract, citings, index terms

Several alternatives to manage large XML document collections exist, ranging from file systems over relational or other database systems to specifically tailored XML base management systems. In this paper we give a tour of Natix, a database management system designed from scratch for storing and processing XML data. Contrary to the common belief that management of XML data is just another application for traditional databases like relational systems, we illustrate how almost every component in a ...

Keywords: Database, XML

13 A comparative study of man-machine interfaces in interactive systems
K. Maeda, Y. Miyake, J. Nievergelt, Y. Saito
October 1984 **ACM SIGCHI Bulletin**, Volume 16 Issue 2
Publisher: ACM Press
Full text available: pdf(1.56 MB) Additional Information: full citation, abstract, references, citings

This study compares and assesses the quality of a number of man-machine interfaces in a sample of interactive systems chosen to represent a wide spectrum of different applications, including: text editors, information retrieval, data communication and processing utilities, and programming environments. The purpose of this study is to develop a check-list for comparing and assessing man-machine interfaces, and to illustrate this technique by means of examples. As a consequence of this approach we ...

14 Multi-sensory browser and editor model
James W. Ryder, Kanad Ghose
February 1999 **Proceedings of the 1999 ACM symposium on Applied computing SAC '99**
Publisher: ACM Press
Full text available: pdf(803.12 KB) Additional Information: full citation, references, citings, index terms

Keywords: computer accessibility, computer human interface, multi-sensory user environments, multimedia, speech-enabled application model

15 Papers: Off the wall: Fluid interaction with high-resolution wall-size displays
François Guimbretière, Maureen Stone, Terry Winograd

November 2001 **Proceedings of the 14th annual ACM symposium on User interface software and technology UIST '01**
Publisher: ACM Press

Full text available: pdf(1.34 MB) Additional Information: full citation, abstract, references, citings, index terms

This paper describes new interaction techniques for direct pen-based interaction on the Interactive Mural, a large (6'x3.5') high resolution (64 dpi) display. They have been tested in a digital brainstorming tool that has been used by groups of professional product designers. Our "interactive wall" metaphor for interaction has been guided by several goals: to support both free-hand sketching and high-resolution materials, such as images, 3D models and GUI application windows; to pres ...

Keywords: FlowMenu, Large displays, interactive wall

16 Selected writings on computing: a personal perspective
Edsger W. Dijkstra
January 1982 Book
Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(60.98 MB) Additional Information: full citation, abstract, references, cited by, index terms

Since the summer of 1973, when I became a Burroughs Research Fellow, my life has been very different from what it had been before. The daily routine changed: instead of going to the University each day, where I used to spend most of my time in the company of others, I now went there only one day a week and was most of the time that is, when not travelling!-- alone in my study. In my solitude, mail and the written word in general became more and more important. The circumstance that my employe ...

17 Interactive Editing Systems: Part I
Norman Meyrowitz, Andries van Dam
September 1982 **ACM Computing Surveys (CSUR)**, Volume 14 Issue 3
Publisher: ACM Press
Full text available: pdf(3.08 MB) Additional Information: full citation, citings, index terms

18 Debunking the myths about Fortran
Craig T. Dedo
August 1999 **ACM SIGPLAN Fortran Forum**, Volume 18 Issue 2
Publisher: ACM Press
Full text available: pdf(844.04 KB) Additional Information: full citation, index terms

19 Tools: Role-based control of shared application views
Lior Berry, Lyn Bartram, Kellogg S. Booth
October 2005 **Proceedings of the 18th annual ACM symposium on User interface software and technology UIST '05**
Publisher: ACM Press
Full text available: pdf(745.66 KB) Additional Information: full citation, abstract, references, index terms

Collaboration often relies on all group members having a shared view of a single-user application. A common situation is a single active presenter sharing a live view of her workstation screen with a passive audience, using simple hardware-based video signal projection onto a large screen or simple bitmap-based sharing protocols. This offers simplicity and some advantages over more sophisticated software-based replication solutions, but everyone has the exact same view of the application. This c ...

Keywords: CSCW, application, bitmap, policy, privacy, role, sharing, verbosity, view

20 Customizing information capture and access



Daniela Rus, Devika Subramanian
January 1997 **ACM Transactions on Information Systems (TOIS)**, Volume 15 Issue 1
Publisher: ACM Press

Full text available: pdf(1.26 MB) Additional Information: full citation, abstract, references, citings, index terms, review

This article presents a customizable architecture for software agents that capture and access information in large, heterogeneous, distributed electronic repositories. The key idea is to exploit underlying structure at various levels of granularity to build high-level indices with task-specific interpretations. Information agents construct such indices and are configured as a network of reusable modules called structure detectors and segmenters. We illustrate our architectu ...

Keywords: information gathering, software agents, table recognition

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